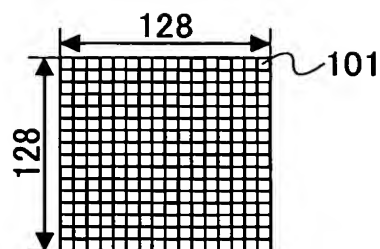
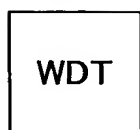


FIG.1A



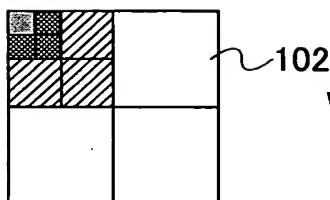
ORIGINAL IMAGE

FIG.1B



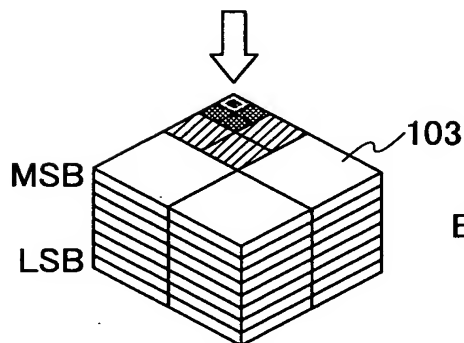
WAVELET CONVERSION

FIG.1C



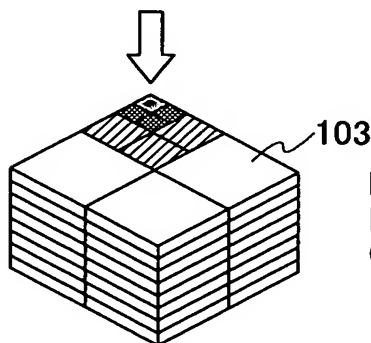
WAVELET COEFFICIENT

FIG.1D



BIT PLANE DIVISION

FIG.1E



ELIMINATE LSB COMPONENTS  
FOR EACH CODE BLOCK  
OR ELIMINATE CODE BLOCK

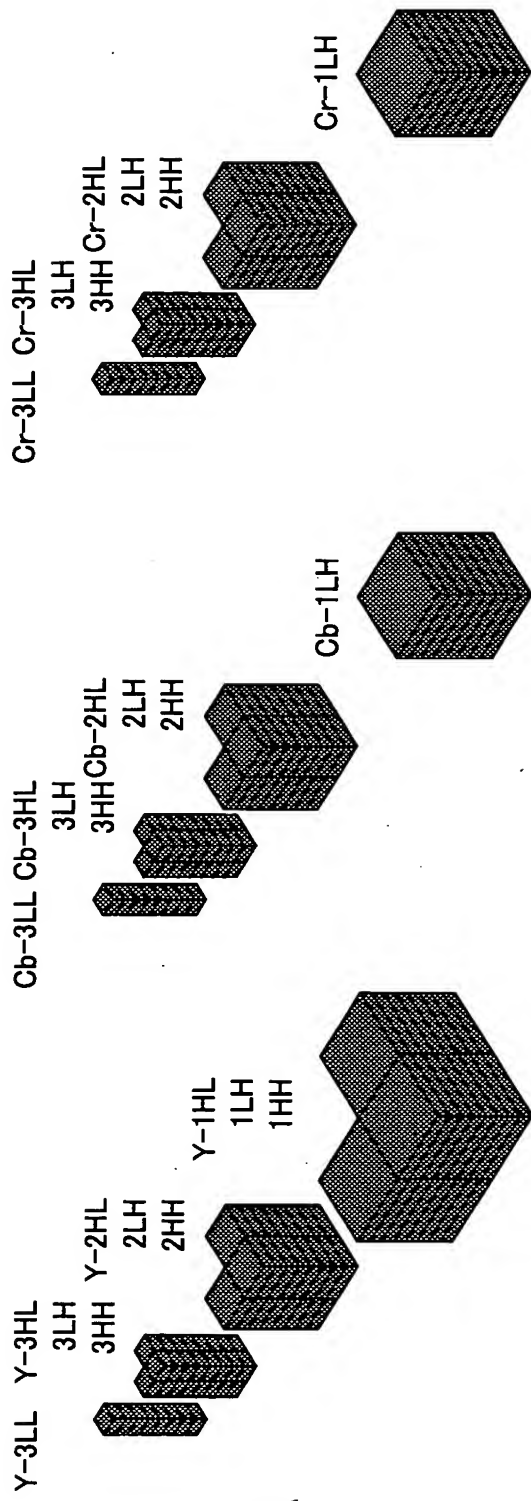


FIG.2A

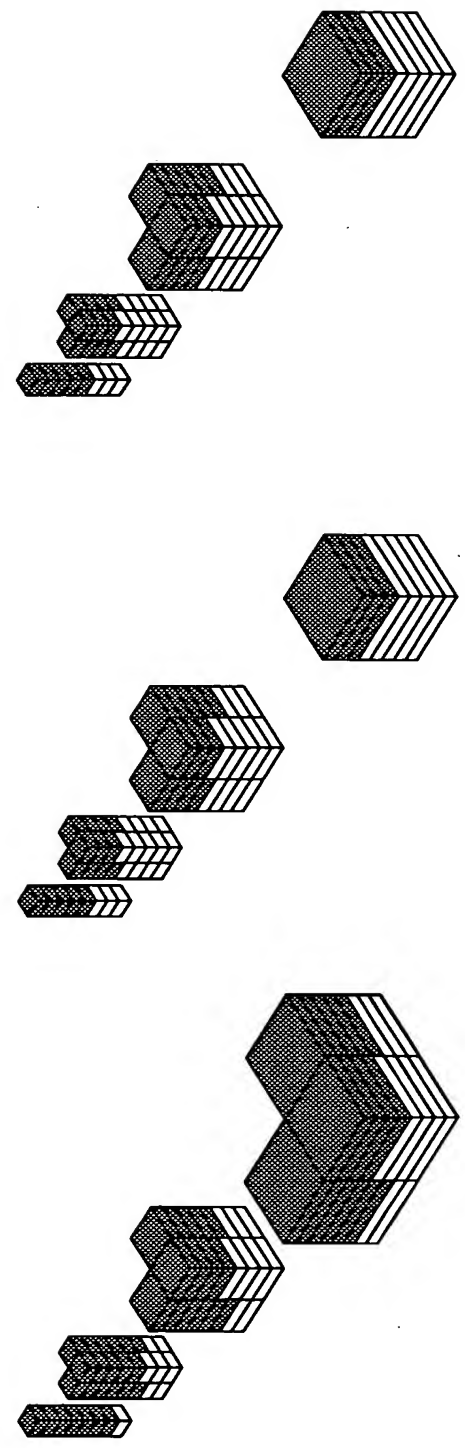
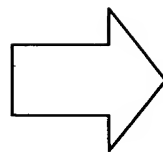


FIG.2B

# FIG.3

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|
| 0   | 1   | 4   | 7   | 8   | 19  | 20  | 21  | 22  | 67  | 68  | 69  | 70  | 71  | 72  | 73  | 74 |    |
| 2   | 3   | 5   | 6   | 9   | 10  | 23  | 24  | 25  | 26  | 75  | 76  | 77  | 78  | 79  | 80  | 81 | 82 |
| 11  | 12  | 15  | 16  | 27  | 28  | 29  | 30  | 83  | 84  | 85  | 86  | 87  | 88  | 89  | 90  |    |    |
| 13  | 14  | 17  | 18  | 31  | 32  | 33  | 34  | 91  | 92  | 93  | 94  | 95  | 96  | 97  | 98  |    |    |
| 35  | 36  | 37  | 38  | 51  | 52  | 53  | 54  | 99  | 100 | 101 | 102 | 103 | 104 | 105 | 106 |    |    |
| 39  | 40  | 41  | 42  | 55  | 56  | 57  | 58  | 107 | 108 | 109 | 110 | 111 | 112 | 113 | 114 |    |    |
| 43  | 44  | 45  | 46  | 59  | 60  | 61  | 62  | 115 | 116 | 117 | 118 | 119 | 120 | 121 | 122 |    |    |
| 47  | 48  | 49  | 50  | 63  | 64  | 65  | 66  | 123 | 124 | 125 | 126 | 127 | 128 | 129 | 130 |    |    |
| 131 | 132 | 133 | 134 | 135 | 136 | 137 | 138 | 195 | 196 | 197 | 198 | 199 | 200 | 201 | 202 |    |    |
| 139 | 140 | 141 | 142 | 143 | 144 | 145 | 146 | 203 | 204 | 205 | 206 | 207 | 208 | 209 | 210 |    |    |
| 147 | 148 | 149 | 150 | 151 | 152 | 153 | 154 | 211 | 212 | 213 | 214 | 215 | 216 | 217 | 218 |    |    |
| 155 | 156 | 157 | 158 | 159 | 160 | 161 | 162 | 219 | 220 | 221 | 222 | 223 | 224 | 225 | 226 |    |    |
| 163 | 164 | 165 | 166 | 167 | 168 | 169 | 170 | 227 | 228 | 229 | 230 | 231 | 232 | 233 | 234 |    |    |
| 171 | 172 | 173 | 174 | 175 | 176 | 177 | 178 | 235 | 236 | 237 | 238 | 239 | 240 | 241 | 242 |    |    |
| 179 | 180 | 181 | 182 | 183 | 184 | 185 | 186 | 243 | 244 | 245 | 246 | 247 | 248 | 249 | 250 |    |    |
| 187 | 188 | 189 | 190 | 191 | 192 | 193 | 194 | 251 | 252 | 253 | 254 | 255 | 256 | 257 | 258 |    |    |

FIG.4

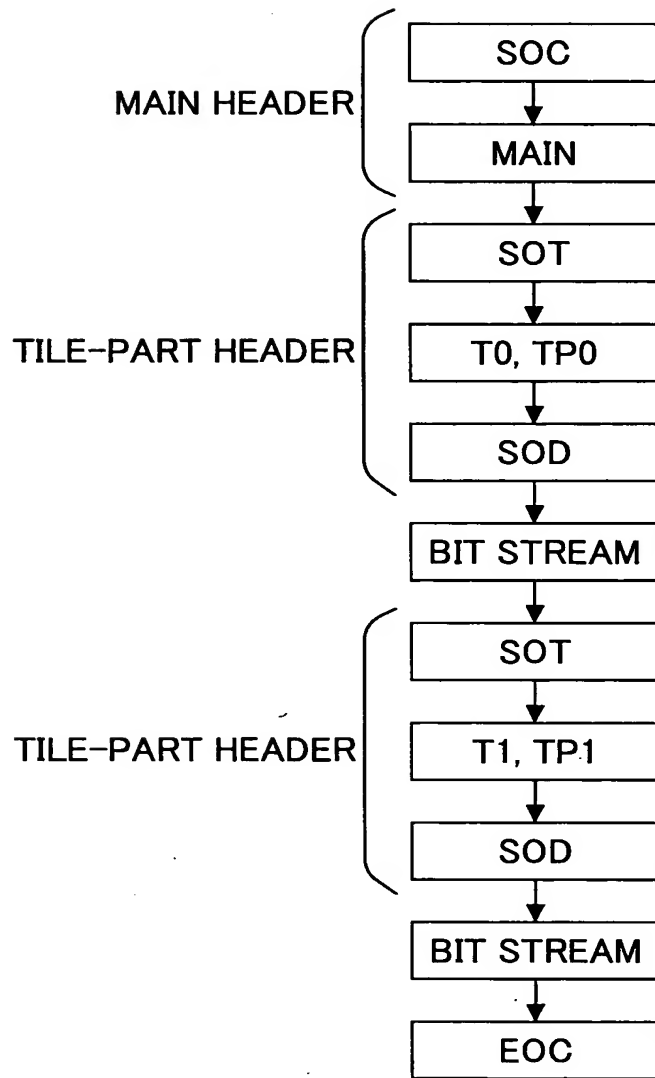


FIG.5

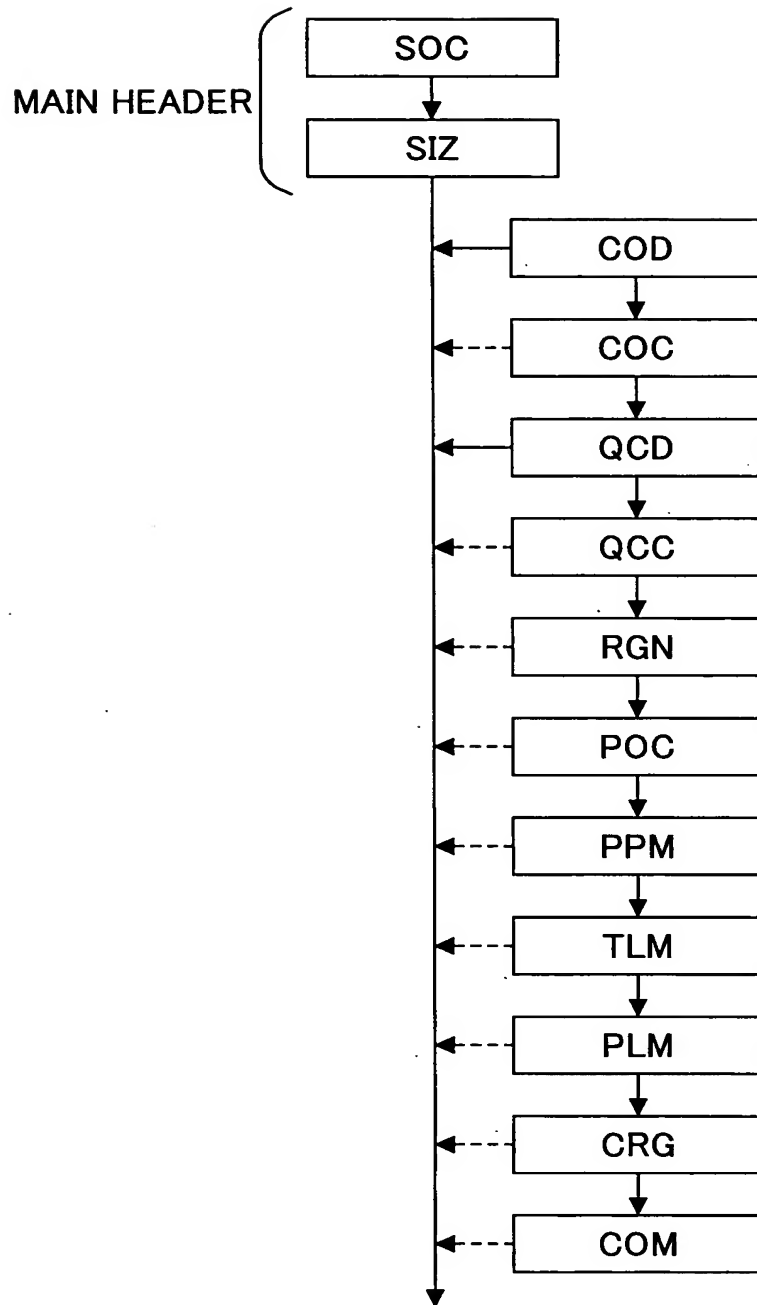
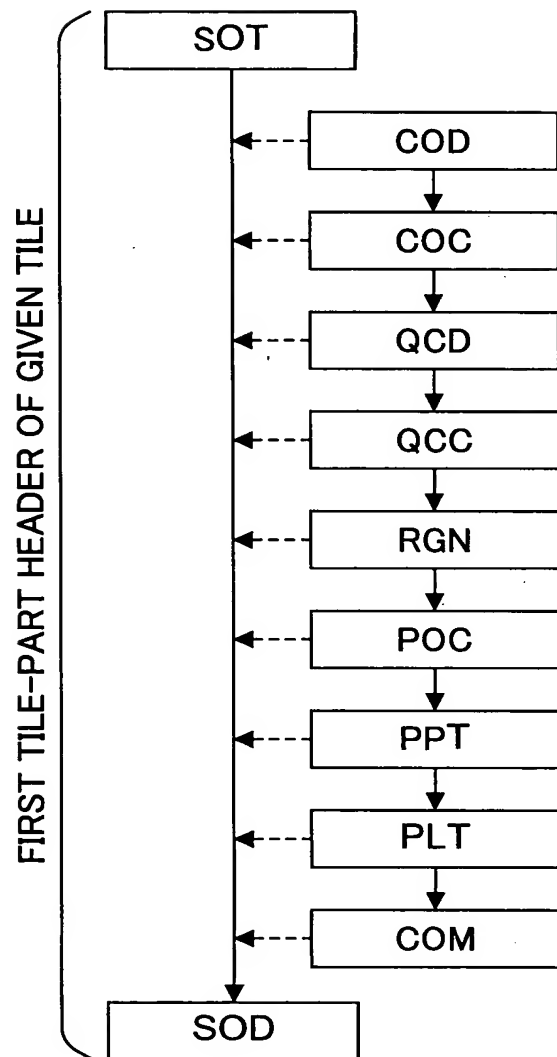
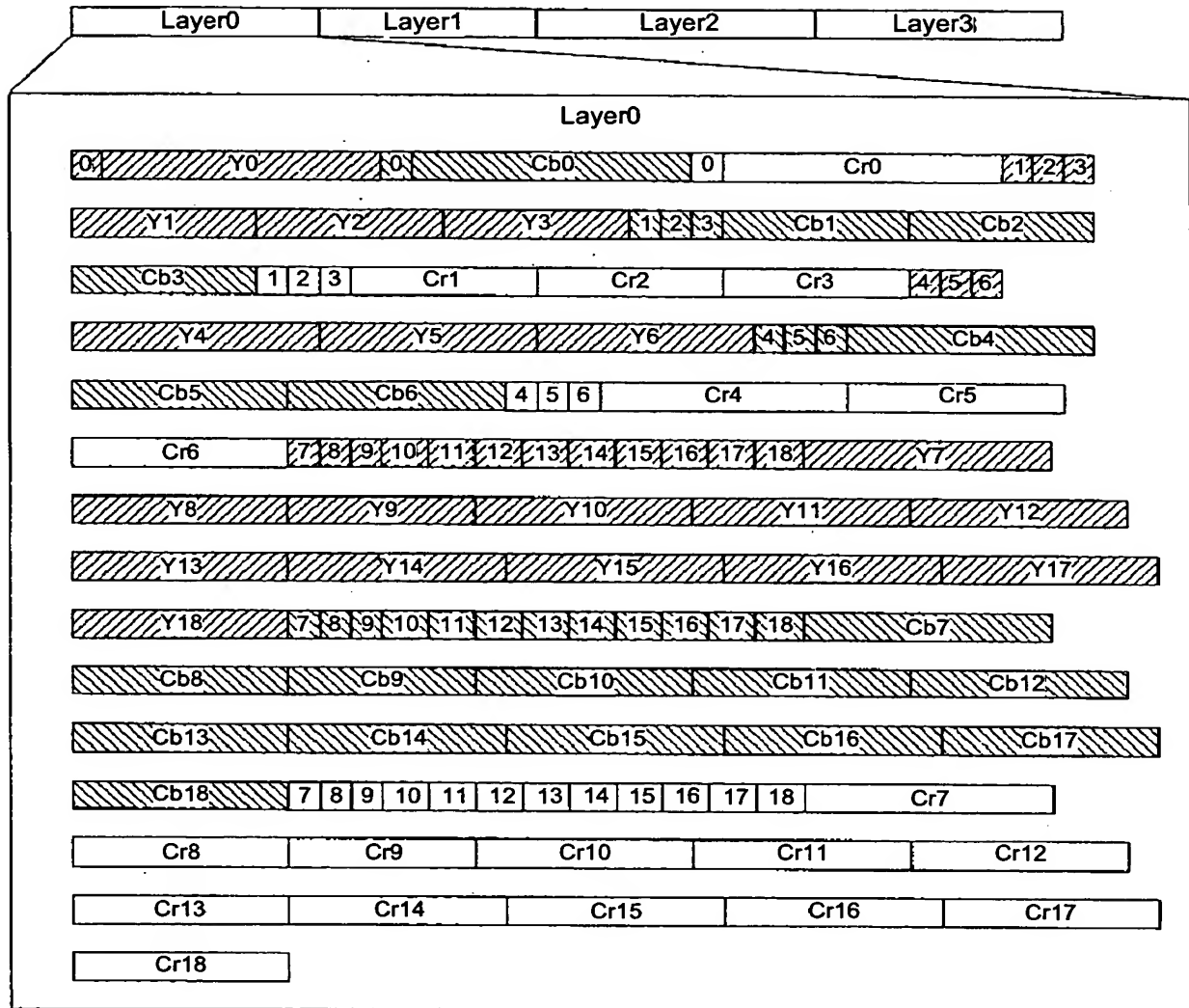


FIG.6



# FIG.7

## CASE OF LRCP



# FIG.8

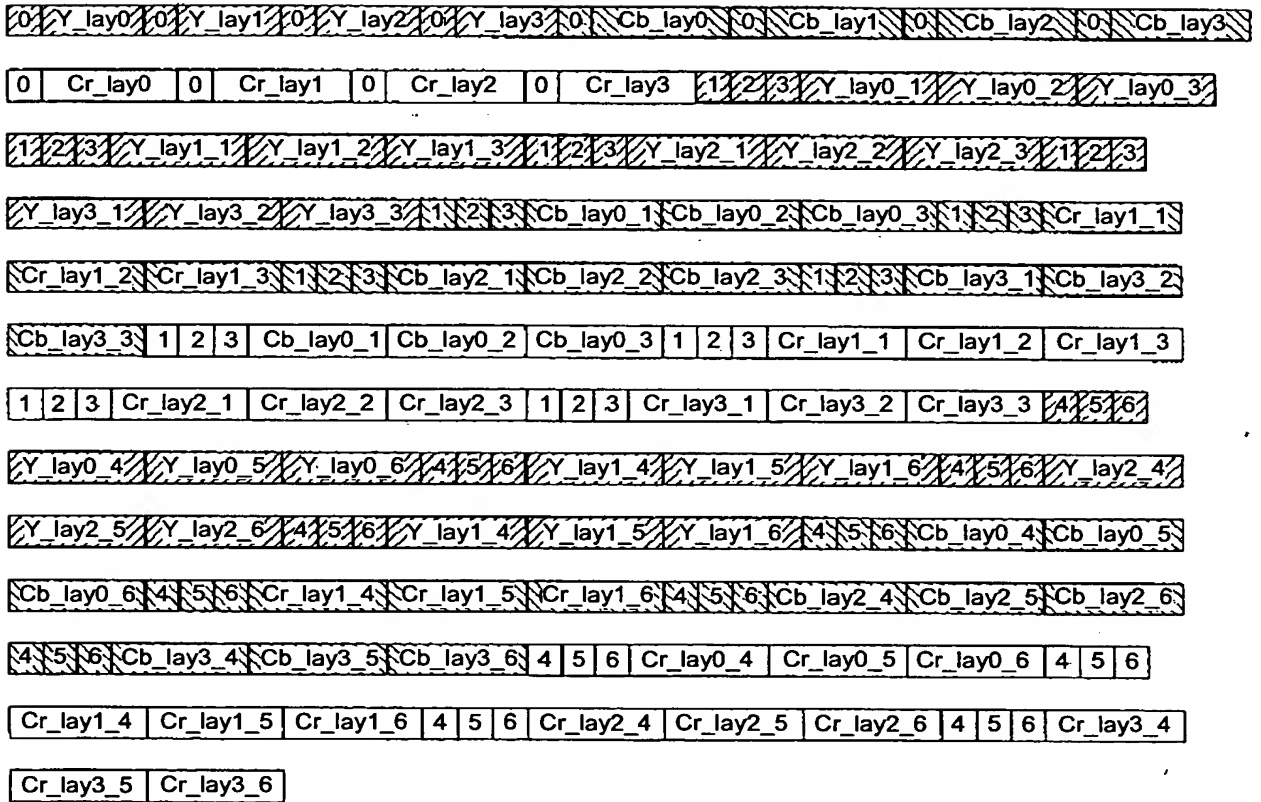
## CASE OF RLOP





# FIG.9

## CASE OF RPCL



# FIG.10

## CASE OF PCRL

|                      |                      |                     |                      |                      |                      |                      |                      |                     |                      |                      |                      |                      |                      |                      |                       |                       |
|----------------------|----------------------|---------------------|----------------------|----------------------|----------------------|----------------------|----------------------|---------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|-----------------------|-----------------------|
| <del>0</del>         | <del>Y_lay0_0</del>  | <del>Y_lay1_0</del> | <del>Y_lay2_0</del>  | <del>Y_lay3_1</del>  | <del>2</del>         | <del>3</del>         | <del>Y_lay0_1</del>  | <del>Y_lay0_2</del> | <del>Y_lay0_3</del>  | <del>1</del>         | <del>2</del>         | <del>3</del>         | <del>Y_lay1_1</del>  |                      |                       |                       |
| <del>Y_lay1_2</del>  | <del>Y_lay1_3</del>  | <del>1</del>        | <del>2</del>         | <del>3</del>         | <del>Y_lay2_1</del>  | <del>Y_lay2_2</del>  | <del>Y_lay2_3</del>  | <del>1</del>        | <del>2</del>         | <del>3</del>         | <del>Y_lay3_1</del>  | <del>Y_lay3_2</del>  | <del>Y_lay3_3</del>  |                      |                       |                       |
| <del>4</del>         | <del>5</del>         | <del>6</del>        | <del>Y_lay0_4</del>  | <del>Y_lay0_5</del>  | <del>Y_lay0_6</del>  | <del>4</del>         | <del>5</del>         | <del>6</del>        | <del>Y_lay1_4</del>  | <del>Y_lay1_5</del>  | <del>Y_lay1_6</del>  | <del>4</del>         | <del>5</del>         | <del>6</del>         | <del>Y_lay2_4</del>   |                       |
| <del>Y_lay2_5</del>  | <del>Y_lay2_6</del>  | <del>4</del>        | <del>5</del>         | <del>6</del>         | <del>Y_lay1_4</del>  | <del>Y_lay1_5</del>  | <del>Y_lay1_6</del>  | 0                   | Cb_lay0              | 0                    | Cb_lay1              | 0                    | Cb_lay2              | 0                    |                       |                       |
| Cr_lay3              | 1                    | 2                   | 3                    | Cb_lay0_1            | Cb_lay0_2            | Cb_lay0_3            | 1                    | 2                   | 3                    | Cb_lay1_1            | Cb_lay1_2            | Cb_lay1_3            | 1                    | 2                    | 3                     |                       |
| Cb_lay2_1            | Cb_lay2_2            | Cb_lay2_3           | 1                    | 2                    | 3                    | Cb_lay3_1            | Cb_lay3_2            | Cb_lay3_3           | 4                    | 5                    | 6                    | Cb_lay0_4            | Cb_lay0_5            |                      |                       |                       |
| Cb_lay0_6            | 4                    | 5                   | 6                    | Cb_lay1_4            | Cb_lay1_5            | Cb_lay1_6            | 4                    | 5                   | 6                    | Cb_lay2_4            | Cb_lay2_5            | Cb_lay2_6            | 4                    | 5                    | 6                     |                       |
| Cb_lay3_4            | Cb_lay3_5            | Cb_lay3_6           | 0                    | Cb_lay0              | 0                    | Cb_lay1              | 0                    | Cb_lay2             | 0                    | Cb_lay3              | <del>1</del>         | <del>2</del>         | <del>3</del>         | <del>Cr_lay0_1</del> |                       |                       |
| <del>Cr_lay0_2</del> | <del>Cr_lay0_3</del> | <del>1</del>        | <del>2</del>         | <del>3</del>         | <del>Cr_lay1_1</del> | <del>Cr_lay1_2</del> | <del>Cr_lay1_3</del> | <del>1</del>        | <del>2</del>         | <del>3</del>         | <del>Cr_lay2_1</del> | <del>Cr_lay2_2</del> | <del>Cr_lay2_3</del> |                      |                       |                       |
| <del>1</del>         | <del>2</del>         | <del>3</del>        | <del>Cr_lay3_1</del> | <del>Cr_lay3_2</del> | <del>Cr_lay3_3</del> | <del>4</del>         | <del>5</del>         | <del>6</del>        | <del>Cb_lay0_4</del> | <del>Cr_lay0_5</del> | <del>Cr_lay0_6</del> | <del>4</del>         | <del>5</del>         | <del>6</del>         | <del>Cr_lay1_4</del>  |                       |
| <del>Cr_lay1_5</del> | <del>Cr_lay1_6</del> | <del>4</del>        | <del>5</del>         | <del>6</del>         | <del>Cr_lay2_4</del> | <del>Cr_lay2_5</del> | <del>Cr_lay2_6</del> | <del>4</del>        | <del>5</del>         | <del>6</del>         | <del>Cr_lay3_4</del> | <del>Cr_lay3_5</del> | <del>Cr_lay3_6</del> |                      |                       |                       |
| <del>7</del>         | <del>8</del>         | <del>9</del>        | <del>10</del>        | <del>11</del>        | <del>12</del>        | <del>13</del>        | <del>14</del>        | <del>15</del>       | <del>16</del>        | <del>17</del>        | <del>18</del>        | <del>Cr_lay0_7</del> | <del>Cr_lay0_8</del> | <del>Cr_lay0_9</del> | <del>Cr_lay0_10</del> | <del>Cr_lay0_11</del> |

FIG.11

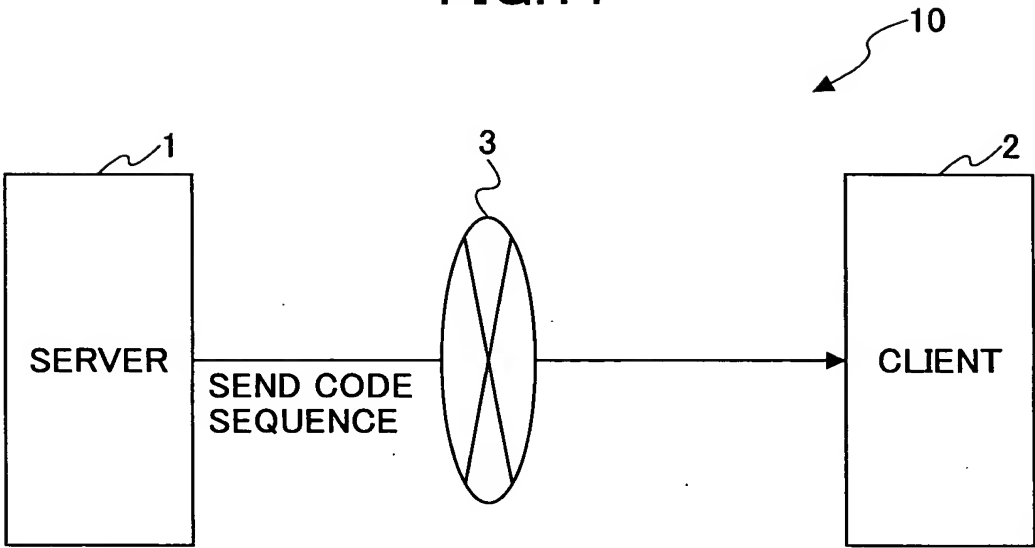


FIG.12

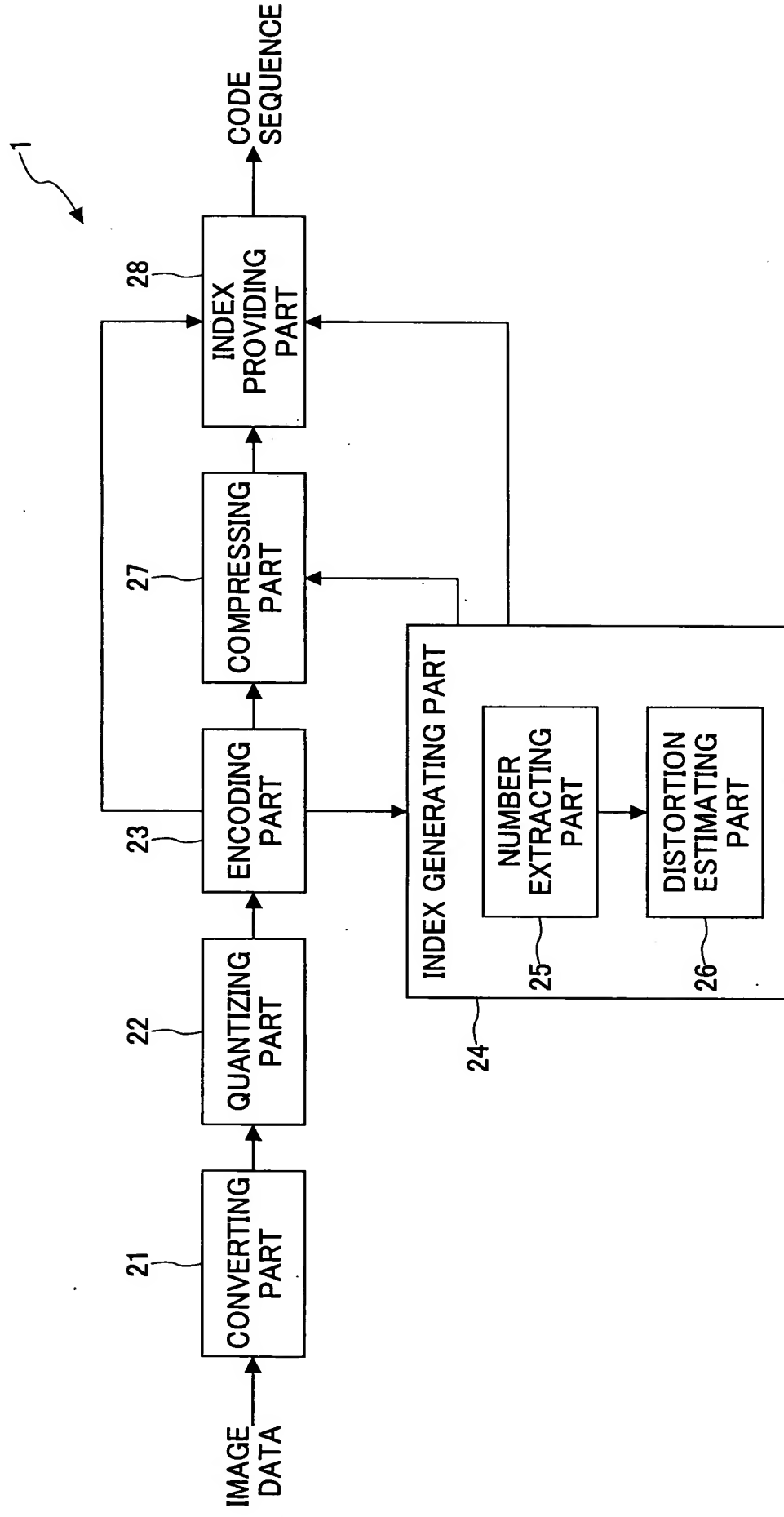


FIG.13

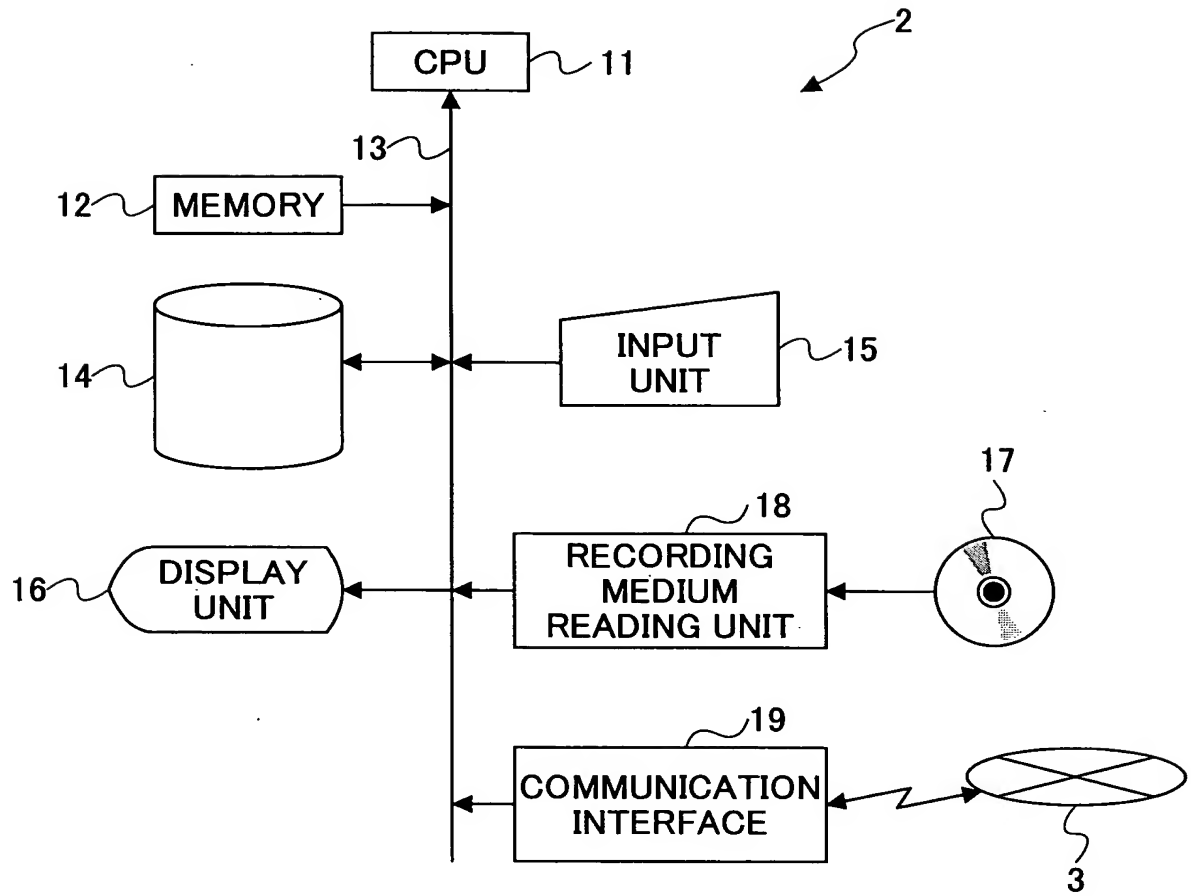


FIG.14

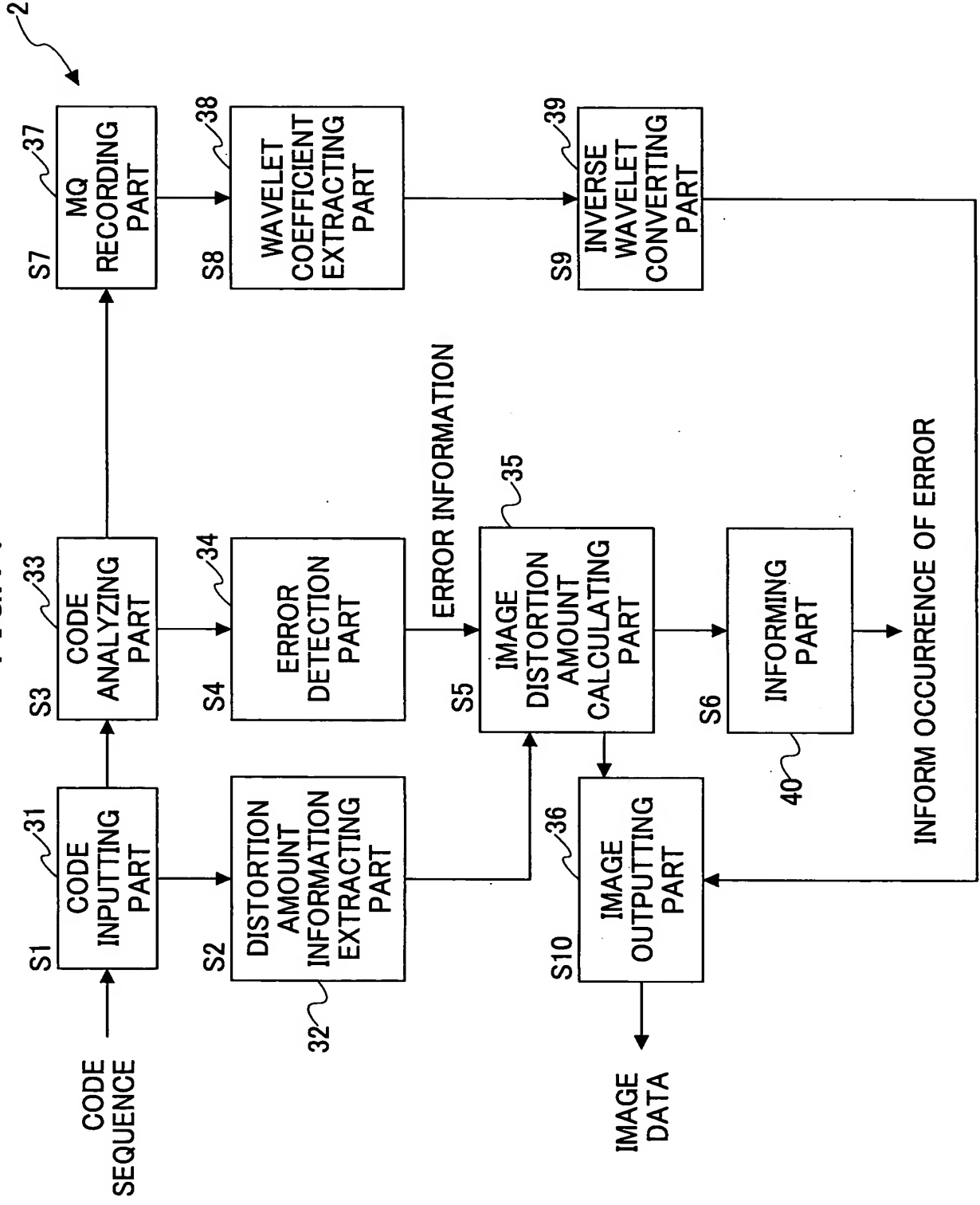
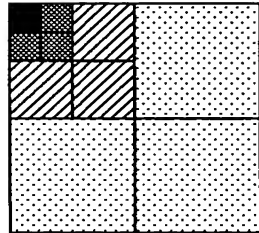
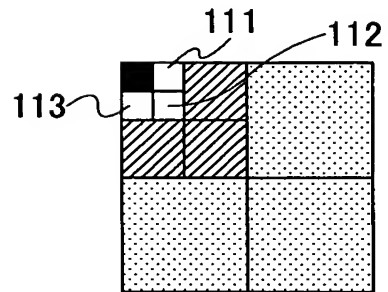


FIG.15A



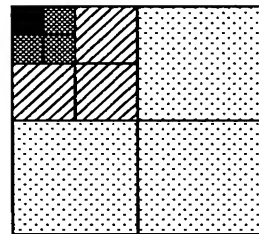
WAVELET COEFFICIENT  
OF Y COMPONENT

FIG.15D



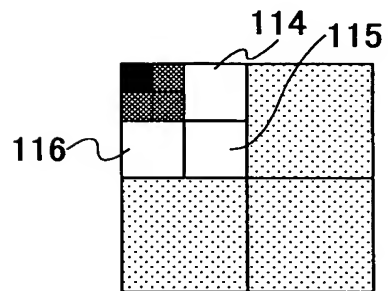
WAVELET COEFFICIENT  
OF Y COMPONENT

FIG.15B



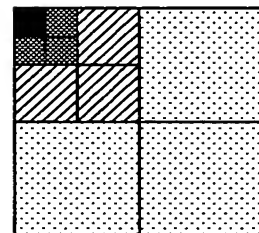
WAVELET COEFFICIENT  
OF Cb COMPONENT

FIG.15E



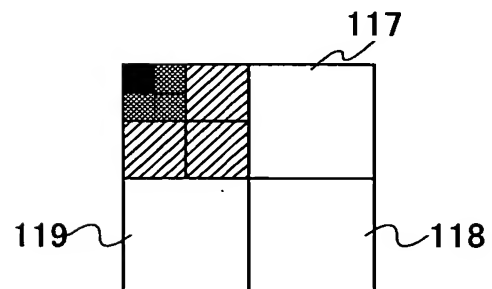
WAVELET COEFFICIENT  
OF Cb COMPONENT

FIG.15C



WAVELET COEFFICIENT  
OF Cr COMPONENT

FIG.15F



WAVELET COEFFICIENT  
OF Cr COMPONENT

FIG.16

